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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,746	12/05/2003	Jayalekshmy Ayyer	0640/71701/JPW/AG	3165
John P. White	7590 07/25/200	EXAMINER		
Cooper & Dunham LLP			NGUYEN, CAM N	
1185 Avenue of the Americas New York, NY 10036			ART UNIT	PAPER NUMBER
			1754	
			MAIL DATE	. DELIVERY MODE
			07/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/729,746	AYYER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Cam N. Nguyen	1754			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timing and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. & 133)			
Status					
1) Responsive to communication(s) filed on 5/02/6	07 (an election).				
2a) ☐ This action is FINAL . 2b) ☒ This					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) 18-37 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 and 38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acceed applicant may not request that any objection to the orange Replacement drawing sheet(s) including the correction of the orange and the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the correction of the orange replacement drawing sheet(s) including the orange replacement drawing sheet sheet drawing sheet sheet sheet drawing sheet sheet sheet drawing sheet s	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)		•			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ite			
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DETAILED ACTION

Response to Election/Restriction

- 1. Applicant's election of Group I, claims 1-17 & 38 in the reply filed on 5/02/07 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. Claims 18-37 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention(s), there being no allowable generic or linking claim. Election was made <u>without traverse</u> in the reply filed on 5/02/07.

Claim Objections

- 3. Claims 1-5, 7-8, 10, & 11 are objected to because of the following informalities:
- A. In claim 1, line 2, "the said catalyst" should be changed to --said catalyst--.
- B. In claim 1, line 3, "and" should be deleted and replaced thereof with --, --.
- C. In claim 1, line 3, --, -- should be inserted after "alumina".
- D. In claim 2, line 2, "gypsum andalumina andhydrated iron oxide" should be changed to –gypsum, ...alumina, and ...hydrated iron oxide--.
- E. In claim 3, line 1, "clays are selected form the group comprising..." should be changed to --said clay is selected from the group consisting of...-.
- F. In claim 4, line 1, "clays are" should be changed to --said clay is--.

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G. In claim 5, "clay used" should be changed to --said clay--.

- H. In claim 7, line 1, -- a should be inserted before "pH".
- I. In claim 8, line 1-2, "temperature" should be changed to –a temperature--.
- J. In claim 8, line 2, "before use for activating the same" should be deleted.
- K. In claim 10, line 2, "the same" is suggested spelled out.
- In claim 11, line 2, "the same" is suggested spelled out.Appropriate correction is required.

Claim Rejections - 35 USC § 112 (Second Paragraph)

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 10 & 38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- A. Claim 10 recites the limitation "said spent catalyst" in line 1. There is insufficient antecedent basis for this limitation in the claim.
- B. Regarding claim 38, the claim is called for "a catalyst", but there is no limitation in the claim describing the catalyst. It should be noted that the composition, structure, and properties of the catalyst should be set forth in the catalyst claim itself.

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Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1, 3-17, & 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schneider et al., "hereinafter Schneider '213", (US Pat. 4,774,213).

Schneider '213 discloses the claimed catalyst containing iron compound in combination with acid aluminosilicate, which is clay (see col. 8, claim 1, and other claims in the claim section of the reference).

While Schneider '213 is silent with respect to the concentrations of the iron and clay, it would appear that the minimum concentrations for these components being required in the instant claim 1 would obviously met by the teaching of the reference.

Regarding claims 8-17, it would appear that the limitations in these claims are intended use limitations. The instant claims are called for "a catalyst" and that catalyst being claimed does not depend on the intended use recitations for completeness, but the catalyst limitations are able to stand alone. See MPEP 2111.02 and 2114. See also *In re Pearson*, 181 USPQ 641 & In re Thrau, 57 USPQ 324.

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Allowable Subject Matter

8. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Citations

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. All references are cited for related art. See PTO-892 Form attached.

Conclusion

10. Claims 1-38 are pending. Claims 1, 3-17 & 38 are rejected. Claim 1-5, 7-8, 10, & 11 are objected. Claims 18-37 remain withdrawn due to nonelected (distinct) invention(s). No claims are allowed.

Contacts

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Primary Examiner Cam N Nguyen, whose telephone number is 571-272-1357. The examiner can normally be reached on M-F, 9:00 AM - 6:30 PM, at alternative work site.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Cam N. Nguyen/

Nguyen/cnn

Primary Examiner

July 23, 2007

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